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EUROPEAN PATENT APPLICATION

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(54) Continuous process for transforming material and apparatus apt to carry out such process

- (57) A continuous process for transforming, by chemico-physical reactions inside molten slag, materials to be gasified, thermally destroyed, inertized, or from which elements of commercial value are to be recovered, yielding controlled composition products, in an apparatus made of a single reaction chamber, called reactor, having a substantially cylindrical symmetry, including two portions, a top and a bottom one, communicating and functionally distinct therebetween for carrying out the process, said process being characterised in that it comprises the steps of:
- possibly, introducing into the top portion of the reactor, through a first injection level, a comburent gas for the post-combustion of the process gases;
- introducing into the bottom portion of the reactor, sideways through a second injection level and/or vertically from the top thereof, the material to be transformed, the fuel, the comburent and possibly slag inoculants and additives and material-carrying gases;
- possibly, introducing inert stirring gases from the reactor bottom:
- extracting the process the gases from the top portion of the reactor; and
- tapping from the bottom portion of the reactor the transformed material, of controlled composition, and the inert slag.

The invention also relates to an apparatus apt to carry out this process.

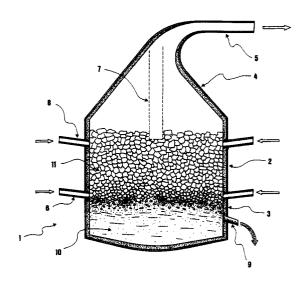


FIG.1



EUROPEAN SEARCH REPORT

Application Number EP 00 83 0734

		ERED TO BE RELEVANT ndication, where appropriate,	Relevant	CLASSIFICATION OF THE		
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				C10J		
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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